



PATENT

Docket No.: 2283/500

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Dirk Inze, et al

Examiner:

Serial No. : 09/530,209

Art Unit:

Filed : April 24, 2000

Corresponding to  
International

Application No.: PCT/EP98/06749

RECEIVED

International

Filing Date: October 23, 1998

NOV 15 2000

TECH CENTER 1600/2900

For : A NOVEL MITOGENIC CYCLIN AND USES  
THEREOF

## INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. §§ 1.197 and 1.98, it is respectfully requested that the following disclosures, which are also listed on the attached Form PTO-1449, be made of record in the above-captioned application.

Nakamura, Y. (1998) "Arabidopsis Thaliana Genomic DNA, Chromosome 5 P1 Clone: MNA5" *EMBL Accession No.* AB011479;

Soni et al. (1995) "A Family of Cyclin D Homologs From Plants Differentially Controlled by Growth Regulators and Containing the Conserved Retinoblastoma Protein Interaction Motif" *Plant Cell* 7: 85-103;

## CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)

I certify that the attached Information Disclosure Statement is being deposited on November 8, 2000 with the U.S. Postal Service as first class mail under 37 C.F.R. § 1.8 and addressed to Assistant Commissioner for Patents, Washington D.C. 20231.

  
Maria I. Matos

Dahl et al. (1995) "The D-Type Alfalfa Cyclin Gene CYCMS4 Complements G1 Cyclin-Deficient Yeast and Is Induced In The G1 Phase of the Cell Cycle" *Plant Cell* 7: 1847-1857;

RECEIVED  
NOV 15 1996

Doerner et al. (1996) "Control of Root Growth and Development By Cyclin Expression" *Nature* 380: 520-523;

RECEIVED  
DEC 18 1996

International PCT Application No. WO 92 09685 A, to University of Australia , published June 11, 1992;

International PCT Application No. WO 97 20842 A, to Centre National de la Recherche Scientifique, published June 12, 1997;

International PCT Application No. WO 97 16447 A, to Mitotix Inc., published May 9, 1997;

Wang et al. (1997) "A Plant Cyclin-Dependent Kinase Inhibitor Gene" *Nature* 386: 451-452;

Planchais et al. (1997) "Roscovitine, A Novel Cyclin-Dependent Kinase Inhibitor, Characterizes Restriction Point and G2/M Transition in Tobacco By-2 Cell Suspension" *Plant Journal* 12: 191-202;

De Veylder et al. (1997) "Identification of Proteins Interacting with the Arabidopsis Cdc2 at Protein" *J. Experimental Botany* 48: 2113-2114;

Cruz-Garcia, et al. (1998) "Effect of Stimulating Maize Germination on Cell Cycle Proteins" *Physiologia Plantarum* 102: 573-581;

Wang et al. (1998) "ICK1, A Cyclin-Dependent Protein Kinase Inhibitor From Arabidopsis Thaliana Interacts With both Cdc2a and CycD3, and its Expression is Induced by Absciscic Acid" *The Plant Journal* 15: 501-510;

International PCT Application No. WO 98 42851 A, Cambridge University Technical Services, published October 1, 1998;

International PCT Application No. WO 98 03631 A, to Salk Institute For Biological Studies, published January 29, 1998;

De Veylder et al. (1997) "The Arabidopsis Cks1 At Protein Binds the Cyclin-Dependent Kinases Cdc2aAt and Cdc2bAt" *Febs Letters* 412: 446-452;

International PCT Application No. WO 93 24514 A, MitoTix, published December 9, 1993;

Doonan, J. (1996) "Plant Growth: Roots In The Cell Cycle" *Current Biology* 6: 788-789;

Xi et al. "Plant Cells Contain A Novel Member of The Retinoblastoma Family of Growth Regulatory Proteins" *Embo Journal* 18: 4900-4908;

Grafi et al "A Maize cDNA Encoding A Member of The Retinoblastoma Protein Family: Involvement in Endoreduplication" *Proceedings of The National Academy of Sciences of USA* 93: 8962-8967;

Hemerly et al. (1995) "Dominant Negative Mutants of the Cdc2 Kinase Uncouple Cell Division From Iterative Plant Development" *Embo Journal* 14: 3925-3936; and

International PCT Application No. WO 93 15213 A, to Zeneca Limited, published August 5, 1993;

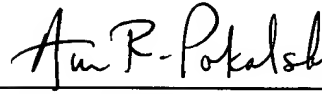
Copies of each of the references are also provided herewith and are listed on the International Search Report, which is also submitted herewith. All of the references are in the English language except WO 97/20842. An English abstract appears on the cover page of WO 97/20842.

Consideration of this Information Disclosure Statement is respectfully requested, since the art provided may be material to the examination of the present invention as defined in 37 C.F.R. §1.56(a).

Inasmuch as this Information Disclosure Statement is being submitted prior to the issuance of an Official Action on the merits, no fee, certification or petition is required by Applicants.

Respectfully submitted,

Date: November 8, 2000

A handwritten signature in cursive script, reading "Ann R. Pokalsky". The signature is written in dark ink and is positioned above a horizontal line.

Ann R. Pokalsky  
Registration No. 34,697

NIXON PEABODY LLP  
990 Stewart Avenue  
Garden City, New York 11530-4838  
Telephone: (516) 832-7572  
Facsimile: (516) 832-7555

ARP/mm

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use several sheets if necessary)  (PTO-1449 )	ATTORNEY DOCKET NO. 2283/500	SERIAL NO. 09/530,209
	APPLICANT Dirk Inze et al.	
	FILING DATE April 24, 2000	GROUP ART UNIT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						

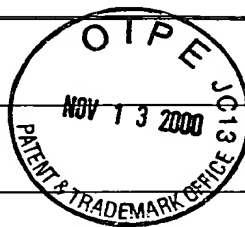
## FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRAN- SLATION IF APPRO- PRIATE
	AH	WO 92 09685 A	6/11/92	PCT			
	AI	WO 97 20842 A	6/12/97	Europe			
	AJ	WO 97 16447 A	5/9/97	PCT			

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	AK		Nakamura, Y. (1998) "Arabidopsis Thaliana Genomic DNA, Chromosome 5 P1 Clone: MNAS" <i>EMBL Accession No.</i> AB011479.
	AL		Soni et al. (1995) "A Family of Cyclin D Homologs From Plants Differentially Controlled by Growth Regulators and Containing the Conserved Retinoblastoma Protein Interaction Motif" <i>Plant Cell</i> 7: 85-103.
	AM		Dahl et al. (1995) "The D-Type Alfalfa Cyclin Gene CYCMS4 Complements G1 Cyclin-Deficient Yeast and Is Induced In The G1 Phase of the Cell Cycle" <i>Plant Cell</i> 7: 1847-1857.
	AN		Doerner et al. (1996) "Control of Root Growth and Development By Cyclin Expression" <i>Nature</i> 380: 520-523.
	AO		Wang et al. (1997) "A Plant Cyclin-Dependent Kinase Inhibitor Gene" <i>Nature</i> 386: 451-452.
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6 9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use several sheets if necessary)  (PTO-1449 )	ATTORNEY DOCKET NO. 2283/500	SERIAL NO. 09/530,209
	APPLICANT Dirk Inze et al.	
	FILING DATE April 24, 2000	GROUP ART UNIT



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						

## FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRAN- SLATION IF APPRO- PRIATE
	BH	WO 98 42851A	10/1/98	PCT			
	BI	WO 98 03631 A	1/29/98	PCT			
	BJ	WO 93 24514 A	12/9/93	PCT			

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

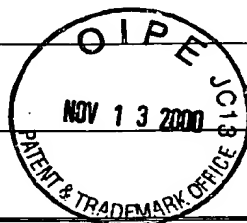
	BK	Planchais et al. (1997) "Roscovitine, A Novel Cyclin-Dependent Kinase Inhibitor, Characterizes Restriction Point and G2/M Transition in Tobacco By-2 Cell Suspension" <i>Plant Journal</i> 12: 191-202.
	BL	De Veylder et al. (1997) "Identification of Proteins Interacting with the Arabidopsis Cdc2 at Protein" <i>J. Experimental Botany</i> 48: 2113-2114.
	BM	Cruz-Garcia, et al. (1998) "Effect of Stimulating Maize Germination on Cell Cycle Proteins" <i>Physiologia Plantarum</i> 102: 573-581.
	BN	Wang et al. (1998) "ICK1, A Cyclin-Dependent Protein Kinase Inhibitor From Arabidopsis Thaliana Interacts With both Cdc2a and CycD3, and its Expression is Induced by Absciscic Acid" <i>The Plant Journal</i> 15: 501-510.
	BO	De Veylder et al. (1997) "The Arabidopsis Cks1 At Protein Binds the Cyclin-Dependent Kinases Cdc2aAt and Cdc2bAt" <i>Febs Letters</i> 412: 446-452.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6 9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use several sheets if necessary)  (PTO-1449)	ATTORNEY DOCKET NO. 2283/500	SERIAL NO. 09/530,209
	APPLICANT Dirk Inze et al.	
	FILING DATE April 24, 2000	GROUP ART UNIT



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	CA						
	CB						
	CC						
	CD						
	CE						
	CF						
	CG						

## FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRAN- SLATION IF APPRO- PRIATE
	CH	WO 93 15213 A	8/5/93	PCT			
	CI						
	CJ						

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	CK		Doonan, J. (1996) "Plant Growth: Roots In The Cell Cycle" <i>Current Biology</i> 6: 788-789.
	CL		Xi et al. "Plant Cells Contain A Novel Member of The Retinoblastoma Family of Growth Regulatory Proteins" <i>Embo Journal</i> 18: 4900-4908.
	CM		Grafi et al "A Maize cDNA Encoding A Member of The Retinoblastoma Protein Family: Involvement in Endoreduplication" <i>Proceedings of The National Academy of Sciences of USA</i> 93: 8962-8967.
	CN		Hemerly et al. (1995) "Dominant Negative Mutants of the Cdc2 Kinase Uncouple Cell Division From Iterative Plant Development" <i>Embo Journal</i> 14: 3925-3936.
	CO		
EXAMINER			DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6 9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			